

Appendix A. Price and quantity baseline data for fed cattle, feeder cattle, and beef, 2005-2009

	<u>Unit</u>	<u>2005.</u> <u>QI</u>	<u>2005.</u> <u>QI + QII</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Fed cattle								
Price range, live weight	\$ per cwt	\$82-\$88	\$82-\$90	\$82-\$88	\$84-\$90	\$83-\$91	\$81-\$89	\$77-\$87
Quantity demanded	1,000 head	6,640	13,739	26,775	28,245	28,302	27,933	27,645
Quantity supplied	1,000 head	6,638	13,734	26,765	28,235	28,292	27,923	27,635
Feeder cattle								
Price range, live weight	\$ per cwt	\$92-\$98	\$92-\$99	\$94-\$100	\$91-\$97	\$90-\$98	\$87-\$95	\$83-\$93
Quantity demanded	1,000 head	5,443	11,262	22,125	23,340	23,387	23,082	22,844
Quantity supplied	1,000 head	4,943	9,759	21,215	22,380	22,425	22,133	21,905
Beef								
Price range, wholesale	\$ per cwt	----	----	\$141-\$147	\$143-\$153	\$141-\$155	\$138-\$151	\$131-\$148
Quantity demanded	million lbs	----	----	27,966	26,024	25,988	26,028	26,143
Quantity supplied	million lbs	----	----	27,916	25,918	25,882	25,922	26,037

Notes and sources:

Fed cattle Annual price for 2005 from USDA, WASDE-416. First and second quarter prices, 2005, based on forecasts in USDA, LDP-M-124. Annual prices 2006-2009, based on forecasts in USDA, Agricultural Baseline Projections to 2013, Staff Report WAOB-2004-1, Table 23. Quantities demanded and supplied for 2005, projected by USDA and adjusted to take into account cattle supplied by feedlots with capacities less than 1,000 head. Quantities supplied and demanded, 2006-2009, based on beef demand projections for these years, as shown. Beef quantities are divided by assumed beef yield per head (765 lbs, 2006; 767 lbs, 2007; 769 lbs, 2008; 771 lbs, 2009). Slaughter totals are then multiplied by the percentage assumed to be steers and heifers (83%, 2006; 83.5%, 2007; 82.5%, 2008; 81.5%, 2009).

Feeder cattle First and second quarter, and annual prices, 2005, from USDA, LDP-M-124. Annual prices, 2006-2009, based on forecasts in USDA, Agricultural Baseline Projections to 2013, Staff Report WAOB-2004-1, Table 23. Feeder cattle placements and marketings for 2005 provided by USDA, OCE. Quantities for the first and second quarters, 2005, based on five-year averages of quarterly percentages. Quantities supplied and demanded, 2006-2009, based on 2005 ratio of feeder cattle to fed cattle.

Beef Annual prices, 2005, from USDA, Economic Research Service. Quantities for 2005 taken from USDA, WASDE-416. WASDE-416. Annual prices and quantities supplied and demanded, 2006-2009, based on forecasts in USDA, Agricultural Baseline Projections to 2013, Staff Report WAOB-2004-1, Table 23.

Appendix B. Quantities of fed and feeder cattle assumed to be imported from Canada due to the rule, 2005-2009, head

<u>Period</u>	<u>Category of Cattle</u>	<u>Backlog</u>	<u>One-half Backlog</u>	<u>Displaced Fed Cattle</u>	<u>One-half Displaced Fed Cattle</u>	<u>Normal Imports</u>	<u>Total</u>
1st Q, 2005	fed	394,500		115,000		120,700	630,200
	fed		197,250		57,500	120,700	375,450
	feeder	204,000				116,700	320,700
	feeder		102,000			116,700	218,700
1st and 2nd Q, 2005	fed	394,500		230,000		288,000	912,500
	fed		197,250		115,000	288,000	600,250
	feeder	204,000				166,400	370,400
	feeder		102,000			166,400	268,400
2005	fed	394,500		460,000		652,400	1,506,900
	fed		197,250		230,000	652,400	1,079,650
	feeder	204,000				311,400	515,400
	feeder		102,000			311,400	413,400
2006	fed			260,000		612,400	872,400
	fed				130,000	612,400	742,400
	feeder					301,400	301,400
2007	fed			160,000		582,400	742,400
	fed				80,000	582,400	662,400
	feeder					291,400	291,400
2008	fed			60,000		562,400	622,400
	fed				30,000	562,400	592,400
	feeder					281,400	281,400
2009	fed			60,000		552,400	612,400
	fed				30,000	552,400	582,400
	feeder					271,400	271,400

Note: See Appendixes C, D, and E.

Appendix C. Derivation of the quantities of fed and feeder cattle assumed to be imported from Canada because of the rule

Approximating quantities of cattle that would be imported from Canada requires consideration of a representative number that would enter normally, as well as the extra number available, or backlog, due to the current border closure, and an additional number available because of expected displacement of steer/heifer slaughter in Canada by cow slaughter for the production of processing beef for export to the United States. We expect the increase in these beef exports from Canada because of the 30-month age limitation for live cattle imports. Beef imported from Canada will be allowed to come from cattle slaughtered at any age, as long as the prescribed risk mitigations have been met.

In Appendix B, we sum the backlog, normal, and displacement quantities for the quarterly and annual imports in 2005. Imports for the years 2006-2009 are based only on the normal and displacement imports.

Backlog

Canada's cattle backlog continues to grow larger. For this analysis, we approximate the backlog using the change in Canada's July 1 cattle inventories for 2003 and 2004, as shown in Appendix D. In calculating the backlog, we assume:

- * All dairy and beef cows and bulls are over 30 months and therefore would not be eligible for importation into the United States.
- * Slaughter heifers, steers, and calves held by stocker/finishers and feeding operations would be imported for immediate slaughter in the first quarter or the first two quarters of 2005.
- * Slaughter heifers, steers, and calves held by cow-calf or other non-finishing operations would be available for placement in feedlots. We recognize that this assumption overstates the probable number of feeders, as some calves will be too young for placement in feedlots.

Based on these assumptions, the backlog totals are 394,500 fed cattle and 204,000 feeder cattle. Given the uncertainties regarding the size of the backlog and the numbers of cattle that would be shipped to the United States, we also perform analyses assuming one-half of the backlog would be imported.

Normal

Numbers of cattle that would normally be imported by the United States from Canada are based on average imports over two years, 2001 and 2002. The two-year average is thought to reflect current pasture conditions and grazing opportunities in Canada and the United States. The average first-quarter, second-quarter, and annual import levels, specified by type and weight, are shown in Appendix E. The row totals are distributed among the fed (slaughter steers and heifers) and feeder categories of cattle used in the analysis, and a category of slaughter bulls and cows that will not be eligible for importation because of their age. Cattle between 90 kg and 199 kg are not included in the imports, since they are considered too light for confined feeding.

Based on average imports for the two years, slaughter steers and heifers (representing fed cattle less than 30 months) numbered about 652,400 head annually, about 120,700 head in the first quarter of the year, and about 167,300 head in the second quarter of the year. Feeder numbers averaged about 311,400 head annually, about 116,700 head in the first quarter, and about 49,700 head in the second quarter. The weight categories included as feeder cattle are explained in the note to Appendix E.

Displaced Fed Cattle

We acknowledge likely consequences of the import conditions of the rule for Canadian cattle and beef (cattle, less than 30 months; beef, from cattle slaughtered at any age) by assuming cow slaughter will displace some steer/heifer slaughter in Canada. For 2005, we assume the displacement approximately equals the backlog of cattle greater than 30 months shown in Appendix D (462,400 head). For subsequent years, we assume a declining number of displacements as the Canadian livestock and beef markets become more aligned, as indicated in Appendix B.

As with the backlog, we also perform analyses assuming one-half of the number of displaced fed cattle.

Appendix D. Cattle backlog in Canada, based on one-year inventory differences

	Inventory on July 1		Difference
	<u>2003</u>	<u>2004</u>	<u>in Inventory</u>
	-----Thousand Head-----		
Bulls 1 Year +	273.5	286.2	12.7
Beef Cows	4,916.1	5,339.8	423.7
Dairy Cows	1,055.1	1,081.1	26.0
Slaughter Heifers	1,126.5	1,274.6	148.1
Held by stocker/finishers	515.7	566.5	50.8
Held by feedlots	502.5	566.0	63.5
Not held by stocker/ finishers or by feedlots	108.3	142.1	33.8
Steers 1 Year +	1,618.2	1,732.4	114.2
Held by stocker/finishers	556.9	632.4	75.5
Held by feedlots	881.5	896.5	15.0
Not held by stocker/ finishers or by feedlots	179.8	203.5	23.7
Calves < 1 Year	5,358.8	5,695.0	336.2
Held by stocker/finishers	698.4	889.1	190.7
Held by feedlots	76.0	75.0	-1.0
Not held by stocker/ finishers or by feedlots	4,584.4	4,730.9	146.5

Total Change in Inventory (excluding replacement heifers):

For slaughter

 Under 30 Months 394.5 (slaughter heifers, steers, and calves held by stocker/finishers and feedlots)

 30 Months + 462.4 (beef cows, dairy cows, and bulls)

For feeding 204.0 (slaughter heifers, steers, and calves not held by stocker/finishers or feeders)

Source: Statistics Canada, Cattle Statistics 2004, vol. 3, no. 2, Catalogue no. 23-012-XIE.

Appendix E. 2001-2001 average annual, first-quarter, and second-quarter cattle imports from Canada, excluding cattle imported for breeding or backgrounding, head

<u>Description</u>	<u>Harmonized Schedule</u>	<u>Total</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Fed Steers and Heifers</u>			<u>Slaughter Bulls and Cows</u>			<u>Feeders</u>		
					<u>Total</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Total</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Total</u>	<u>First Quarter</u>	<u>Second Quarter</u>
DY CW NT PB,<90K	0102902011	123	19	36							123	19	36
DY CW NT PB,>90K	0102902012	64,549	14,510	19,738									
BV,BI,NES	0102904010	2,396	634	518			26,765						
BV,ML,NES,<90	0102904024	268	33	39							268	33	39
BV,FL,NES,<90	0102904028	8,380	1,609	2,553							8,380	1,609	2,553
BV,ML,NES,90-199	0102904034	60,933	9,540	10,224									
BV,FL,NES,90-199	0102904038	19,214	355	1,614									
BV,ML,NS,200-319	0102904054	70,894	11,123	8,975							70,894	11,123	8,975
BV,FL,NS,200-319	0102904058	62,837	15,523	4,168							62,837	15,523	4,168
STEERS,SLGHTR	0102904062	385,286	65,790	100,790	385,286	65,790	100,790						
BULLS,SLGHTR	0102904064	55,520	11,621	13,814				55,520	11,621	13,814			
COWS,SLGHTR	0102904066	314,946	64,187	68,143				314,946	64,187	68,143			
HEIFERS,SLGHTR	0102904068	267,102	54,903	66,522	267,102	54,903	66,522						
BOV,BRDNG,MALE	0102904072	2,431	1,040	841									
BOV,BRDNG,FML	0102904074	7,158	1,476	2,174									
BOV,ML,NES,320>	0102904082	109,641	64,411	19,770							109,641	64,411	19,770
BOV,FML,NES,320>	0102904084	59,275	24,015	14,119							59,275	24,015	14,119
TOTAL		1,490,951	342,824	336,552	652,388	120,693	167,312	370,466	75,807	81,956	311,418	116,732	49,658

Source: USDA FAS.

Note: Cattle that are less than 90 kg are included as feeders for veal. Cattle between 200 kg and 319 kg are all assumed to enter feedlots, with the lighter animals fed for a longer period. Cattle that are 320 kg or greater, not elsewhere specified, are considered feeder cattle.

Appendix F. U.S. beef imports from Canada and the world, April 2004 - September 2004, October 2003 - March 2004, and October 2002 - March 2003, kilograms

	<u>Fresh/chilled Beef Imports</u>				<u>Frozen Beef Imports</u>			
	Total	from Canada	Percentage from Canada	Average for Six Months	Total	from Canada	Percentage from Canada	Average for Six Months
Apr-04	34,383,511	29,930,382	87.0%	84.8%	59,301,349	1,928,923	3.3%	3.1%
May-04	28,556,174	24,760,573	86.7%		52,301,963	1,284,439	2.5%	
Jun-04	38,041,043	32,302,868	84.9%		69,001,111	2,079,680	3.0%	
Jul-04	32,943,397	26,689,059	81.0%		75,727,514	2,107,433	2.8%	
Aug-04	33,166,508	27,628,841	83.3%		58,901,476	1,997,641	3.4%	
Sep-04	31,405,504	26,911,281	85.7%		50,890,828	2,028,560	4.0%	
Oct-03	33,165,757	26,988,820	81.4%	83.8%	49,237,894	3,327,444	6.8%	5.7%
Nov-03	34,171,915	28,874,542	84.5%		43,832,982	3,779,378	8.6%	
Dec-03	33,702,514	27,670,947	82.1%		55,727,050	2,919,822	5.2%	
Jan-04	28,476,990	22,477,375	78.9%		73,508,790	2,506,607	3.4%	
Feb-04	27,460,174	24,059,315	87.6%		45,950,567	2,416,407	5.3%	
Mar-04	32,240,672	28,463,273	88.3%		54,835,946	2,760,164	5.0%	
Oct-02	34,169,694	31,264,180	91.5%	90.0%	32,516,719	1,917,505	5.9%	4.0%
Nov-02	32,253,999	28,824,099	89.4%		42,202,101	1,716,619	4.1%	
Dec-02	30,438,395	27,108,272	89.1%		49,375,125	1,293,527	2.6%	
Jan-03	33,994,574	30,475,040	89.6%		55,430,092	1,461,376	2.6%	
Feb-03	30,454,480	27,696,402	90.9%		36,330,259	1,823,865	5.0%	
Mar-03	34,653,160	31,074,442	89.7%		50,648,327	1,852,498	3.7%	
	<u>Fresh/chilled and Frozen Combined</u>				<u>Percentage of Beef Imports from Canada that were Fresh/chilled</u>			
	Total	from Canada	Percentage from Canada	Average for Six Months				Average for Six Months
Apr-04	93,684,860	31,859,305	34.0%	32.0%	93.95%			93.6%
May-04	80,858,137	26,045,012	32.2%		95.07%			
Jun-04	107,042,154	34,382,548	32.1%		93.95%			
Jul-04	108,670,911	28,796,492	26.5%		92.68%			
Aug-04	92,067,984	29,626,482	32.2%		93.26%			
Sep-04	82,296,332	28,939,841	35.2%		92.99%			
Oct-03	82,403,651	30,316,264	36.8%	34.9%	89.02%			90.0%
Nov-03	78,004,897	32,653,920	41.9%		88.43%			
Dec-03	89,429,564	30,590,769	34.2%		90.46%			
Jan-04	101,985,780	24,983,982	24.5%		89.97%			
Feb-04	73,410,741	26,475,722	36.1%		90.87%			
Mar-04	87,076,618	31,223,437	35.9%		91.16%			
Oct-02	66,686,413	33,181,685	49.8%	40.8%	94.22%			94.6%
Nov-02	74,456,100	30,540,718	41.0%		94.38%			
Dec-02	79,813,520	28,401,799	35.6%		95.45%			
Jan-03	89,424,666	31,936,416	35.7%		95.42%			
Feb-03	66,784,739	29,520,267	44.2%		93.82%			
Mar-03	85,301,487	32,926,940	38.6%		94.37%			

Source: U.S. Dept. of Commerce, Bureau of Census, as reported in the Global Trade Atlas.

Appendix G. Quantities of beef assumed to be imported from Canada with and without the rule, 2005-2009, pounds

<u>Year</u>	<u>Baseline Beef Imports from Canada</u> ¹	<u>Assumed Cow Beef for Steer/Heifer Beef Reduction</u> ²	<u>Lower-bound Imports with Rule</u>	<u>One-Half Assumed Cow Beef for Steer/Heifer Beef Reduction</u>	<u>Upper-bound Imports with Rule</u>
2005	1,080,687,567	46,000,000	1,034,687,567	23,000,000	1,057,687,567
2006	1,162,213,120	26,000,000	1,136,213,120	13,000,000	1,149,213,120
2007	1,109,126,714	16,000,000	1,093,126,714	8,000,000	1,101,126,714
2008	1,074,999,738	6,000,000	1,068,999,738	3,000,000	1,071,999,738
2009	1,073,103,795	6,000,000	1,067,103,795	3,000,000	1,070,103,795

¹Based on Canadian export quantities in USDA Agricultural Baseline Projections to 2013, February 2004, p. 113.

²Based on a 150-pound average difference between beef yields for steers/heifers and cows, one-third reduction in the decline due to shifts from domestic to export sales because of increased domestic prices, and displaced fed cattle slaughter as follows: 2005, 460,000 head; 2006, 260,000 head; 2007, 160,000 head; 2008, 60,000 head; 2009, 60,000 head.

Appendix H. Five-year welfare effects for fed cattle, feeder cattle, and beef, by end-points of price ranges, and mid-points and annualized values of combined welfare effects, 2005-2009, thousand dollars¹

			Price	Changes in Welfare				
			Range	Undiscounted ²	Discounted to 2005 Dollars		Discounted to 2001 Dollars ³	
			End-point		3%	7%	3%	7%
Fed Cattle	Consumer	low	\$2,549,696	\$2,369,949	\$2,068,202	\$2,233,677	\$1,949,281	
	Producer	low	-\$2,502,592	-\$2,325,532	-\$2,028,071	-\$2,191,814	-\$1,911,457	
	Net	low	\$47,105	\$44,417	\$40,131	\$41,863	\$37,824	
	Consumer	high	\$2,773,819	\$2,576,460	\$2,244,323	\$2,428,313	\$2,115,274	
	Producer	high	-\$2,722,823	-\$2,528,400	-\$2,200,961	-\$2,383,017	-\$2,074,406	
	Net	high	\$50,996	\$48,059	\$43,362	\$45,296	\$40,869	
Feeder Cattle	Consumer	low	\$607,415	\$562,477	\$485,936	\$530,134	\$457,995	
	Producer	low	-\$577,711	-\$534,921	-\$462,024	-\$504,163	-\$435,458	
	Net	low	\$29,704	\$27,556	\$23,912	\$25,971	\$22,537	
	Consumer	high	\$657,073	\$608,002	\$524,237	\$573,042	\$494,094	
	Producer	high	-\$624,961	-\$578,234	-\$498,456	-\$544,986	-\$469,795	
	Net	high	\$32,112	\$29,767	\$25,781	\$28,056	\$24,299	
Beef	Consumer	low	-\$78,340	-\$73,919	-\$67,011	-\$69,669	-\$63,157	
	Producer	low	\$78,059	\$73,655	\$66,774	\$69,420	\$62,935	
	Net	low	-\$282	-\$264	-\$236	-\$249	-\$223	
	Consumer	high	-\$83,574	-\$78,792	-\$71,286	-\$74,262	-\$67,187	
	Producer	high	\$83,272	\$78,509	\$71,033	\$73,995	\$66,949	
	Net	high	-\$302	-\$283	-\$253	-\$267	-\$238	
Combined	Consumer	low	\$3,078,771	\$2,858,506	\$2,487,128	\$2,694,142	\$2,344,119	
	Producer	low	-\$3,002,244	-\$2,786,798	-\$2,423,321	-\$2,626,557	-\$2,283,980	
	Net	low	\$76,527	\$71,709	\$63,807	\$67,585	\$60,138	
	Consumer	high	\$3,347,318	\$3,105,669	\$2,697,274	\$2,927,093	\$2,542,181	
	Producer	high	-\$3,264,512	-\$3,028,125	-\$2,628,383	-\$2,854,008	-\$2,477,251	
	Net	high	\$82,806	\$77,544	\$68,891	\$73,085	\$64,929	
	Consumer	mid-point	\$3,213,045	\$2,982,088	\$2,592,201	\$2,810,618	\$2,443,150	
	Producer	mid-point	-\$3,133,378	-\$2,907,462	-\$2,525,852	-\$2,740,283	-\$2,380,616	
	Net	mid-point	\$79,667	\$74,626	\$66,349	\$70,335	\$62,534	
Annualized values	Consumer	low		\$624,168	\$606,587	\$588,278	\$571,709	
	Producer	low		-\$608,510	-\$591,026	-\$573,521	-\$557,042	
	Net	low		\$15,658	\$15,562	\$14,758	\$14,667	
	Consumer	high		\$678,137	\$657,840	\$639,144	\$620,014	
	Producer	high		-\$661,205	-\$641,038	-\$623,186	-\$604,179	
	Net	high		\$16,932	\$16,802	\$15,958	\$15,836	
	Consumer	mid-point		\$651,153	\$632,214	\$613,711	\$595,861	
	Producer	mid-point		-\$634,858	-\$616,032	-\$598,353	-\$580,610	
	Net	mid-point		\$16,295	\$16,182	\$15,358	\$15,251	

¹Assumes importation of the backlog and of the fed cattle displaced from slaughter in Canada, and assumes the decline in beef imports due to the replacement of steer/heifer beef by cow beef.

²See Appendixes L, N, and R.

³Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix I. Five-year welfare effects for fed cattle, feeder cattle, and beef, by end-points of price ranges, and mid-points and annualized values of combined welfare effects, 2005-2009, thousand dollars ¹

			Price	Changes in Welfare				
			Range	Undiscounted ²	Discounted to 2005 Dollars		Discounted to 2001 Dollars ³	
			End-point		3%	7%	3%	7%
Fed Cattle	Consumer	low	\$2,135,395	\$1,975,824	\$1,704,524	\$1,862,214	\$1,606,514	
	Producer	low	-\$2,104,580	-\$1,947,022	-\$1,679,043	-\$1,835,068	-\$1,582,498	
	Net	low	\$30,815	\$28,802	\$25,481	\$27,146	\$24,016	
	Consumer	high	\$2,326,851	\$2,151,409	\$1,852,448	\$2,027,703	\$1,745,933	
	Producer	high	-\$2,293,390	-\$2,120,155	-\$1,824,845	-\$1,998,246	-\$1,719,917	
	Net	high	\$33,461	\$31,254	\$27,603	\$29,457	\$26,016	
Feeder Cattle	Consumer	low	\$568,128	\$524,334	\$449,220	\$494,185	\$423,390	
	Producer	low	-\$540,840	-\$499,124	-\$427,566	-\$470,424	-\$402,981	
	Net	low	\$27,288	\$25,210	\$21,654	\$23,761	\$20,409	
	Consumer	high	\$615,279	\$567,425	\$485,177	\$534,798	\$457,279	
	Producer	high	-\$585,737	-\$540,153	-\$461,798	-\$509,094	-\$435,244	
	Net	high	\$29,542	\$27,272	\$23,379	\$25,704	\$22,035	
Beef	Consumer	low	-\$39,165	-\$36,955	-\$33,501	-\$34,830	-\$31,574	
	Producer	low	\$39,036	\$36,834	\$33,393	\$34,716	\$31,473	
	Net	low	-\$130	-\$121	-\$108	-\$114	-\$102	
	Consumer	high	-\$41,782	-\$39,391	-\$35,638	-\$37,126	-\$33,589	
	Producer	high	\$41,642	\$39,261	\$35,523	\$37,003	\$33,480	
	Net	high	-\$139	-\$130	-\$116	-\$123	-\$109	
Combined	Consumer	low	\$2,664,359	\$2,463,204	\$2,120,243	\$2,321,569	\$1,998,329	
	Producer	low	-\$2,606,385	-\$2,409,313	-\$2,073,216	-\$2,270,777	-\$1,954,006	
	Net	low	\$57,974	\$53,891	\$47,027	\$50,792	\$44,323	
	Consumer	high	\$2,900,348	\$2,679,443	\$2,301,987	\$2,525,375	\$2,169,623	
	Producer	high	-\$2,837,484	-\$2,621,047	-\$2,251,120	-\$2,470,336	-\$2,121,681	
	Net	high	\$62,864	\$58,396	\$50,867	\$55,038	\$47,942	
	Consumer	mid-point	\$2,782,353	\$2,571,323	\$2,211,115	\$2,423,472	\$2,083,976	
	Producer	mid-point	-\$2,721,935	-\$2,515,180	-\$2,162,168	-\$2,370,557	-\$2,037,844	
	Net	mid-point	\$60,419	\$56,144	\$48,947	\$52,915	\$46,132	
Annualized values	Consumer	low		\$537,852	\$517,107	\$506,925	\$487,374	
	Producer	low		-\$526,084	-\$505,638	-\$495,835	-\$476,564	
	Net	low		\$11,767	\$11,469	\$11,091	\$10,810	
	Consumer	high		\$585,069	\$561,433	\$551,427	\$529,151	
	Producer	high		-\$572,317	-\$549,027	-\$539,409	-\$517,458	
	Net	high		\$12,751	\$12,406	\$12,018	\$11,693	
	Consumer	mid-point		\$561,460	\$539,270	\$529,176	\$508,262	
	Producer	mid-point		-\$549,201	-\$527,333	-\$517,622	-\$497,011	
	Net	mid-point		\$12,259	\$11,938	\$11,554	\$11,251	

¹Assumes importation of one-half of the backlog and of one-half of the fed cattle displaced from slaughter in Canada, and assumes one-half of the decline in beef imports due to the replacement of steer/heifer beef by cow beef.

²See Appendixes M, O, and S.

³Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix J. Results of analyses for fed and feeder cattle, assuming importation of the backlog and of fed cattle displaced from slaughter in Canada, 2005-2009

Time Period	Category of Cattle	Elasticities	Reestablished Imports from Canada ¹ head	Baseline Price \$ per cwt	Increase in Total Quantity Sold head	Decrease in Quantity Supplied by U.S. Entities head	Decrease in Price \$ per cwt \$ per head		Percentage Decrease in Price	Increase in Consumer Surplus -----Thousand Dollars-----	Decrease in Producer Surplus	Net Benefit
QI, 2005	fed cattle	s 0.61, d -0.76	630,200	\$82	272,179	-358,021	-\$4.42	-\$55.28	-5.39%	\$374,607	-\$357,076	\$17,530
	fed cattle	s 0.61, d -0.76	630,200	\$88	272,179	-358,021	-\$4.75	-\$59.33	-5.39%	\$402,017	-\$383,204	\$18,813
	fed cattle	s 0.30, d -0.38	630,200	\$82	173,571	-456,629	-\$5.64	-\$70.51	-6.88%	\$474,306	-\$451,947	\$22,359
	fed cattle	s 0.30, d -0.38	630,200	\$88	173,571	-456,629	-\$6.05	-\$75.67	-6.88%	\$509,011	-\$485,016	\$23,995
	feeder cattle	s 0.40, d -0.89	320,700	\$92	158,732	-161,968	-\$3.01	-\$22.61	-3.28%	\$124,857	-\$109,927	\$14,930
	feeder cattle	s 0.40, d -0.89	320,700	\$98	158,732	-161,968	-\$3.21	-\$24.08	-3.28%	\$133,000	-\$117,096	\$15,904
	feeder cattle	s 0.20, d -0.44	320,700	\$92	104,669	-216,031	-\$4.02	-\$30.16	-4.37%	\$165,718	-\$145,804	\$19,914
	feeder cattle	s 0.20, d -0.44	320,700	\$98	104,669	-216,031	-\$4.28	-\$32.12	-4.37%	\$176,526	-\$155,313	\$21,212
QI, QII, 2005	fed cattle	s 0.61, d -0.76	912,500	\$82	394,116	-518,384	-\$3.10	-\$38.69	-3.77%	\$539,162	-\$521,317	\$17,845
	fed cattle	s 0.61, d -0.76	912,500	\$90	394,116	-518,384	-\$3.40	-\$42.46	-3.77%	\$591,763	-\$572,177	\$19,586
	fed cattle	s 0.30, d -0.38	912,500	\$82	251,335	-661,165	-\$3.95	-\$49.34	-4.81%	\$684,143	-\$661,383	\$22,760
	fed cattle	s 0.30, d -0.38	912,500	\$90	251,335	-661,165	-\$4.33	-\$54.16	-4.81%	\$750,889	-\$725,908	\$24,981
	feeder cattle	s 0.40, d -0.89	370,400	\$92	187,673	-182,727	-\$1.72	-\$12.92	-1.87%	\$146,712	-\$124,901	\$21,811
	feeder cattle	s 0.40, d -0.89	370,400	\$99	187,673	-182,727	-\$1.85	-\$13.91	-1.87%	\$157,981	-\$134,495	\$23,486
	feeder cattle	s 0.20, d -0.44	370,400	\$92	124,739	-245,661	-\$2.32	-\$17.37	-2.52%	\$196,696	-\$167,373	\$29,323
	feeder cattle	s 0.20, d -0.44	370,400	\$99	124,739	-245,661	-\$2.49	-\$18.70	-2.52%	\$211,805	-\$180,229	\$31,575
2005	fed cattle	s 0.61, d -0.76	1,506,900	\$82	650,845	-856,055	-\$2.62	-\$32.78	-3.20%	\$888,453	-\$863,424	\$25,029
	fed cattle	s 0.61, d -0.76	1,506,900	\$88	650,845	-856,055	-\$2.81	-\$35.18	-3.20%	\$953,462	-\$926,602	\$26,860
	feeder cattle	s 0.40, d -0.89	515,400	\$94	248,101	-267,299	-\$1.18	-\$8.88	-1.26%	\$197,631	-\$187,259	\$10,372
	feeder cattle	s 0.40, d -0.89	515,400	\$100	248,101	-267,299	-\$1.26	-\$9.45	-1.26%	\$210,246	-\$199,212	\$11,034
2006	fed cattle	s 0.61, d -0.76	872,400	\$84	376,794	-495,606	-\$1.47	-\$18.43	-1.76%	\$524,043	-\$515,820	\$8,224
	fed cattle	s 0.61, d -0.76	872,400	\$90	376,794	-495,606	-\$1.58	-\$19.75	-1.76%	\$561,475	-\$552,664	\$8,811
	feeder cattle	s 0.40, d -0.89	301,400	\$91	145,087	-156,313	-\$0.64	-\$4.77	-0.70%	\$111,688	-\$106,389	\$5,299
	feeder cattle	s 0.40, d -0.89	301,400	\$97	145,087	-156,313	-\$0.68	-\$5.08	-0.70%	\$119,046	-\$113,399	\$5,648
2007	fed cattle	s 0.61, d -0.76	742,400	\$83	320,646	-421,754	-\$1.24	-\$15.47	-1.49%	\$440,416	-\$434,517	\$5,899
	fed cattle	s 0.61, d -0.76	742,400	\$91	320,646	-421,754	-\$1.36	-\$16.96	-1.49%	\$482,845	-\$476,379	\$6,467
	feeder cattle	s 0.40, d -0.89	291,400	\$90	140,273	-151,127	-\$0.61	-\$4.55	-0.67%	\$106,706	-\$101,667	\$5,039
	feeder cattle	s 0.40, d -0.89	291,400	\$98	140,273	-151,127	-\$0.66	-\$4.95	-0.67%	\$116,191	-\$110,704	\$5,487
2008	fed cattle	s 0.61, d -0.76	622,400	\$81	268,819	-353,581	-\$1.03	-\$12.83	-1.27%	\$360,031	-\$355,911	\$4,120
	fed cattle	s 0.61, d -0.76	622,400	\$89	268,819	-353,581	-\$1.13	-\$14.09	-1.27%	\$395,572	-\$391,045	\$4,527
	feeder cattle	s 0.40, d -0.89	281,400	\$87	135,458	-145,942	-\$0.57	-\$4.31	-0.66%	\$99,678	-\$94,986	\$4,692
	feeder cattle	s 0.40, d -0.89	281,400	\$95	135,458	-145,942	-\$0.63	-\$4.70	-0.66%	\$108,837	-\$103,714	\$5,123
2009	fed cattle	s 0.61, d -0.76	612,400	\$77	264,500	-347,900	-\$0.97	-\$12.12	-1.26%	\$336,753	-\$332,919	\$3,833
	fed cattle	s 0.61, d -0.76	612,400	\$87	264,500	-347,900	-\$1.10	-\$13.70	-1.26%	\$380,464	-\$376,133	\$4,331
	feeder cattle	s 0.40, d -0.89	271,400	\$83	130,644	-140,756	-\$0.53	-\$4.00	-0.64%	\$91,712	-\$87,410	\$4,302
	feeder cattle	s 0.40, d -0.89	271,400	\$93	130,644	-140,756	-\$0.60	-\$4.49	-0.64%	\$102,753	-\$97,933	\$4,820

¹See Appendix B.

Appendix K. Results of analyses for fed and feeder cattle, assuming importation of one-half of the backlog and of one-half of fed cattle displaced from slaughter in Canada, 2005-2009

Time Period	Category of Cattle	Elasticities	Reestablished Imports from Canada ¹ head	Baseline Price \$ per cwt	Increase in Total Quantity Sold head	Decrease in Quantity Supplied by U.S. Entities head	Decrease in Price \$ per cwt \$ per head		Percentage Decrease in Price	Increase in Consumer Surplus -----Thousand Dollars-----	Decrease in Producer Surplus	Net Benefit
QI, 2005	fed cattle	s 0.61, d -0.76	375,450	\$82	162,154	-213,296	-\$2.63	-\$32.94	-3.21%	\$221,365	-\$215,116	\$6,249
	fed cattle	s 0.61, d -0.76	375,450	\$88	162,154	-213,296	-\$2.83	-\$35.35	-3.21%	\$237,562	-\$230,856	\$6,706
	fed cattle	s 0.30, d -0.38	375,450	\$82	103,407	-272,043	-\$3.36	-\$42.01	-4.10%	\$281,100	-\$273,130	\$7,970
	fed cattle	s 0.30, d -0.38	375,450	\$88	103,407	-272,043	-\$3.61	-\$45.08	-4.10%	\$301,668	-\$293,115	\$8,553
	feeder cattle	s 0.40, d -0.89	218,700	\$92	108,247	-110,453	-\$1.28	-\$15.42	-1.40%	\$84,756	-\$75,361	\$9,395
	feeder cattle	s 0.40, d -0.89	218,700	\$98	108,247	-110,453	-\$1.37	-\$16.42	-1.40%	\$90,284	-\$80,276	\$10,008
	feeder cattle	s 0.20, d -0.44	218,700	\$92	71,378	-147,322	-\$1.71	-\$20.56	-1.86%	\$112,668	-\$100,137	\$12,531
	feeder cattle	s 0.20, d -0.44	218,700	\$98	71,378	-147,322	-\$1.83	-\$21.91	-1.86%	\$120,016	-\$106,668	\$13,348
QI, QII, 2005	fed cattle	s 0.61, d -0.76	600,250	\$82	259,253	-340,997	-\$2.04	-\$25.45	-2.48%	\$352,949	-\$345,183	\$7,765
	fed cattle	s 0.61, d -0.76	600,250	\$90	259,253	-340,997	-\$2.23	-\$27.93	-2.48%	\$387,383	-\$378,860	\$8,523
	fed cattle	s 0.30, d -0.38	600,250	\$82	165,330	-434,920	-\$2.60	-\$32.46	-3.17%	\$448,639	-\$438,735	\$9,904
	fed cattle	s 0.30, d -0.38	600,250	\$90	165,330	-434,920	-\$2.85	-\$35.63	-3.17%	\$492,408	-\$481,538	\$10,870
	feeder cattle	s 0.40, d -0.89	268,400	\$92	135,992	-132,408	-\$0.78	-\$9.36	-0.85%	\$106,069	-\$90,742	\$15,327
	feeder cattle	s 0.40, d -0.89	268,400	\$99	135,992	-132,408	-\$0.84	-\$10.08	-0.85%	\$114,216	-\$97,712	\$16,504
	feeder cattle	s 0.20, d -0.44	268,400	\$92	90,388	-178,012	-\$1.05	-\$12.59	-1.14%	\$142,314	-\$121,708	\$20,606
	feeder cattle	s 0.20, d -0.44	268,400	\$99	90,388	-178,012	-\$1.13	-\$13.55	-1.14%	\$153,245	-\$131,057	\$22,189
2005	fed cattle	s 0.61, d -0.76	1,079,650	\$82	466,311	-613,339	-\$1.88	-\$23.49	-2.29%	\$634,383	-\$621,469	\$12,915
	fed cattle	s 0.61, d -0.76	1,079,650	\$88	466,311	-613,339	-\$2.02	-\$25.21	-2.29%	\$680,802	-\$666,942	\$13,860
	feeder cattle	s 0.40, d -0.89	413,400	\$94	199,001	-214,399	-\$0.59	-\$7.12	-0.63%	\$158,344	-\$150,388	\$7,956
	feeder cattle	s 0.40, d -0.89	413,400	\$100	199,001	-214,399	-\$0.63	-\$7.58	-0.63%	\$168,451	-\$159,987	\$8,464
2006	fed cattle	s 0.61, d -0.76	742,400	\$84	320,647	-421,753	-\$1.25	-\$15.68	-1.49%	\$445,513	-\$439,534	\$5,979
	fed cattle	s 0.61, d -0.76	742,400	\$90	320,647	-421,753	-\$1.34	-\$16.80	-1.49%	\$477,336	-\$470,930	\$6,406
2007	fed cattle	s 0.61, d -0.76	662,400	\$83	286,094	-376,306	-\$1.10	-\$13.81	-1.33%	\$392,719	-\$388,008	\$4,711
	fed cattle	s 0.61, d -0.76	662,400	\$91	286,094	-376,306	-\$1.21	-\$15.14	-1.33%	\$430,553	-\$425,389	\$5,165
2008	fed cattle	s 0.61, d -0.76	592,400	\$81	255,861	-336,539	-\$0.98	-\$12.21	-1.21%	\$342,598	-\$338,860	\$3,738
	fed cattle	s 0.61, d -0.76	592,400	\$89	255,861	-336,539	-\$1.07	-\$13.41	-1.21%	\$376,418	-\$372,311	\$4,107
2009	fed cattle	s 0.61, d -0.76	582,400	\$77	251,543	-330,857	-\$0.92	-\$11.53	-1.20%	\$320,181	-\$316,709	\$3,473
	fed cattle	s 0.61, d -0.76	582,400	\$87	251,543	-330,857	-\$1.04	-\$13.03	-1.20%	\$361,742	-\$357,818	\$3,923

¹See Appendix B.

Note: For years 2006-2009, feeder cattle imports and impacts are the same as shown in Appendix J.

Appendix L. Welfare effects of the rule, fed cattle, assuming importation of the backlog and of the fed cattle displaced from slaughter in Canada, 2005-2009, thousand dollars

		Price	Changes in Welfare				
		Range	Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
		End-point		3%	7%	3%	7%
		\$ per cwt					
2005	Consumer	\$82	\$888,453	\$862,576	\$830,330	\$812,978	\$782,586
	Producer	\$82	-\$863,424	-\$838,276	-\$806,939	-\$790,075	-\$760,540
	Net	\$82	\$25,029	\$24,300	\$23,391	\$22,903	\$22,046
	Consumer	\$88	\$953,462	\$925,691	\$891,086	\$872,464	\$839,848
	Producer	\$88	-\$926,602	-\$899,613	-\$865,983	-\$847,885	-\$816,189
	Net	\$88	\$26,860	\$26,078	\$25,103	\$24,578	\$23,659
2006	Consumer	\$84	\$524,043	\$493,961	\$457,720	\$465,558	\$431,401
	Producer	\$84	-\$515,820	-\$486,209	-\$450,537	-\$458,252	-\$424,631
	Net	\$84	\$8,224	\$7,752	\$7,183	\$7,306	\$6,770
	Consumer	\$90	\$561,475	\$529,244	\$490,414	\$498,812	\$462,215
	Producer	\$90	-\$552,664	-\$520,939	-\$482,718	-\$490,985	-\$454,962
	Net	\$90	\$8,811	\$8,305	\$7,696	\$7,828	\$7,253
2007	Consumer	\$83	\$440,416	\$403,043	\$329,003	\$379,868	\$310,086
	Producer	\$83	-\$434,517	-\$397,645	-\$324,597	-\$374,780	-\$305,932
	Net	\$83	\$5,899	\$5,398	\$4,406	\$5,088	\$4,153
	Consumer	\$91	\$482,845	\$441,872	\$360,699	\$416,464	\$339,959
	Producer	\$91	-\$476,379	-\$435,954	-\$355,868	-\$410,886	-\$335,406
	Net	\$91	\$6,467	\$5,918	\$4,831	\$5,578	\$4,553
2008	Consumer	\$81	\$360,031	\$319,883	\$244,037	\$301,490	\$230,005
	Producer	\$81	-\$355,911	-\$316,222	-\$241,244	-\$298,039	-\$227,373
	Net	\$81	\$4,120	\$3,661	\$2,793	\$3,450	\$2,632
	Consumer	\$89	\$395,572	\$351,461	\$268,128	\$331,252	\$252,710
	Producer	\$89	-\$391,045	-\$347,439	-\$265,059	-\$327,461	-\$249,818
	Net	\$89	\$4,527	\$4,022	\$3,068	\$3,791	\$2,892
2009	Consumer	\$77	\$336,753	\$290,486	\$207,112	\$273,783	\$195,204
	Producer	\$77	-\$332,919	-\$287,179	-\$204,755	-\$270,666	-\$192,981
	Net	\$77	\$3,833	\$3,307	\$2,358	\$3,117	\$2,222
	Consumer	\$87	\$380,464	\$328,192	\$233,996	\$309,321	\$220,541
	Producer	\$87	-\$376,133	-\$324,456	-\$231,333	-\$305,800	-\$218,031
	Net	\$87	\$4,331	\$3,736	\$2,664	\$3,521	\$2,511

¹See Appendix J.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix M. Welfare effects of the rule, fed cattle, assuming importation of one-half of the backlog and of one-half of the fed cattle displaced from slaughter in Canada, 2005-2009, thousand dollars

		Price	Changes in Welfare				
		Range	Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
		End-point		3%	7%	3%	7%
		\$ per cwt					
2005	Consumer	\$82	\$634,383	\$615,906	\$592,882	\$580,492	\$558,791
	Producer	\$82	-\$621,469	-\$603,368	-\$580,812	-\$568,674	-\$547,415
	Net	\$82	\$12,915	\$12,538	\$12,070	\$11,817	\$11,376
	Consumer	\$88	\$680,802	\$660,973	\$636,263	\$622,967	\$599,678
	Producer	\$88	-\$666,942	-\$647,517	-\$623,310	-\$610,284	-\$587,470
	Net	\$88	\$13,860	\$13,456	\$12,953	\$12,682	\$12,208
2006	Consumer	\$84	\$445,513	\$419,939	\$389,128	\$395,792	\$366,754
	Producer	\$84	-\$439,534	-\$414,303	-\$383,906	-\$390,481	-\$361,832
	Net	\$84	\$5,979	\$5,636	\$5,222	\$5,312	\$4,922
	Consumer	\$90	\$477,336	\$449,935	\$416,923	\$424,063	\$392,950
	Producer	\$90	-\$470,930	-\$443,896	-\$411,328	-\$418,372	-\$387,677
	Net	\$90	\$6,406	\$6,038	\$5,595	\$5,691	\$5,273
2007	Consumer	\$83	\$392,719	\$359,394	\$293,372	\$338,728	\$276,503
	Producer	\$83	-\$388,008	-\$355,083	-\$289,853	-\$334,665	-\$273,187
	Net	\$83	\$4,711	\$4,311	\$3,519	\$4,063	\$3,317
	Consumer	\$91	\$430,553	\$394,017	\$321,635	\$371,361	\$303,141
	Producer	\$91	-\$425,389	-\$389,291	-\$317,777	-\$366,907	-\$299,505
	Net	\$91	\$5,165	\$4,726	\$3,858	\$4,455	\$3,636
2008	Consumer	\$81	\$342,598	\$304,394	\$232,221	\$286,892	\$218,868
	Producer	\$81	-\$338,860	-\$301,073	-\$229,687	-\$283,761	-\$216,480
	Net	\$81	\$3,738	\$3,322	\$2,534	\$3,131	\$2,388
	Consumer	\$89	\$376,418	\$334,443	\$255,145	\$315,212	\$240,474
	Producer	\$89	-\$372,311	-\$330,794	-\$252,361	-\$311,773	-\$237,850
	Net	\$89	\$4,107	\$3,649	\$2,784	\$3,440	\$2,624
2009	Consumer	\$77	\$320,181	\$276,191	\$196,921	\$260,310	\$185,598
	Producer	\$77	-\$316,709	-\$273,196	-\$194,785	-\$257,487	-\$183,585
	Net	\$77	\$3,473	\$2,996	\$2,136	\$2,823	\$2,013
	Consumer	\$87	\$361,742	\$312,042	\$222,481	\$294,099	\$209,689
	Producer	\$87	-\$357,818	-\$308,657	-\$220,068	-\$290,910	-\$207,414
	Net	\$87	\$3,923	\$3,384	\$2,413	\$3,190	\$2,274

¹See Appendix K.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix N. Welfare effects of the rule, feeder cattle, assuming importation of the backlog, 2005-2009, thousand dollars

		Price	Changes in Welfare				
		Range	Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
		End-point		3%	7%	3%	7%
		\$ per cwt					
2005	Consumer	\$94	\$197,631	\$191,875	\$184,702	\$180,842	\$174,082
	Producer	\$94	-\$187,259	-\$181,805	-\$175,008	-\$171,351	-\$164,945
	Net	\$94	\$10,372	\$10,070	\$9,694	\$9,491	\$9,136
	Consumer	\$100	\$210,246	\$204,122	\$196,491	\$192,385	\$185,193
	Producer	\$100	-\$199,212	-\$193,409	-\$186,179	-\$182,288	-\$175,474
	Net	\$100	\$11,034	\$10,713	\$10,312	\$10,097	\$9,720
2006	Consumer	\$91	\$111,688	\$105,277	\$97,552	\$99,223	\$91,943
	Producer	\$91	-\$106,389	-\$100,282	-\$92,925	-\$94,516	-\$87,581
	Net	\$91	\$5,299	\$4,994	\$4,628	\$4,707	\$4,362
	Consumer	\$97	\$119,046	\$112,213	\$103,980	\$105,761	\$98,001
	Producer	\$97	-\$113,399	-\$106,889	-\$99,047	-\$100,743	-\$93,352
	Net	\$97	\$5,648	\$5,323	\$4,933	\$5,017	\$4,649
2007	Consumer	\$90	\$106,706	\$97,651	\$79,712	\$92,036	\$75,129
	Producer	\$90	-\$101,667	-\$93,040	-\$75,948	-\$87,690	-\$71,581
	Net	\$90	\$5,039	\$4,611	\$3,764	\$4,346	\$3,548
	Consumer	\$98	\$116,191	\$106,331	\$86,798	\$100,217	\$81,807
	Producer	\$98	-\$110,704	-\$101,310	-\$82,699	-\$95,485	-\$77,944
	Net	\$98	\$5,487	\$5,021	\$4,099	\$4,732	\$3,863
2008	Consumer	\$87	\$99,678	\$88,563	\$67,564	\$83,470	\$63,679
	Producer	\$87	-\$94,986	-\$84,394	-\$64,384	-\$79,541	-\$60,682
	Net	\$87	\$4,692	\$4,169	\$3,180	\$3,929	\$2,997
	Consumer	\$95	\$108,837	\$96,700	\$73,772	\$91,140	\$69,530
	Producer	\$95	-\$103,714	-\$92,148	-\$70,300	-\$86,850	-\$66,257
	Net	\$95	\$5,123	\$4,552	\$3,473	\$4,290	\$3,273
2009	Consumer	\$83	\$91,712	\$79,112	\$56,405	\$74,563	\$53,162
	Producer	\$83	-\$87,410	-\$75,400	-\$53,759	-\$71,065	-\$50,668
	Net	\$83	\$4,302	\$3,711	\$2,646	\$3,498	\$2,494
	Consumer	\$93	\$102,753	\$88,635	\$63,196	\$83,539	\$59,562
	Producer	\$93	-\$97,933	-\$84,477	-\$60,231	-\$79,620	-\$56,768
	Net	\$93	\$4,820	\$4,158	\$2,965	\$3,919	\$2,794

¹See Appendix J.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix O. Welfare effects of the rule, feeder cattle, assuming importation of one-half of the backlog, 2005, thousand dollars

		Price	Changes in Welfare				
		Range	<u>Undiscounted¹</u>	<u>Discounted to 2005 Dollars</u>		<u>Discounted to 2001 Dollars²</u>	
		<u>End-point</u>		<u>3%</u>	<u>7%</u>	<u>3%</u>	<u>7%</u>
		\$ per cwt					
2005	Consumer	\$94	\$158,344	\$153,732	\$147,985	\$144,893	\$139,476
	Producer	\$94	-\$150,388	-\$146,008	-\$140,550	-\$137,612	-\$132,468
	Net	\$94	\$7,956	\$7,724	\$7,436	\$7,280	\$7,008
	Consumer	\$100	\$168,451	\$163,545	\$157,431	\$154,141	\$148,379
	Producer	\$100	-\$159,987	-\$155,328	-\$149,521	-\$146,396	-\$140,923
	Net	\$100	\$8,464	\$8,218	\$7,910	\$7,745	\$7,456

Note: For years 2006-2009, welfare effects are as shown in Appendix N.

¹See Appendix K.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix P. Results of the analysis for beef, with assumed replacement of steer/heifer beef imports by cow beef imports, 2005-2009

<u>Year</u>	<u>Decline in Imports from Canada¹</u> pounds	<u>Baseline Price</u> \$ per cwt	<u>Increase in Price</u>		<u>Percentage Increase in Price</u>	<u>Decrease in Consumer Surplus</u>	<u>Increase in Producer Surplus</u>	<u>Net Change</u>
			\$ per cwt	\$ per lb		-----Thousand Dollars-----		
2005	46,000,000	\$141	\$0.13	\$0.001290	0.09%	-\$36,082	\$35,988	-\$94
	46,000,000	\$147	\$0.13	\$0.001345	0.09%	-\$37,618	\$37,520	-\$98
2006	26,000,000	\$143	\$0.08	\$0.000796	0.06%	-\$20,707	\$20,612	-\$95
	26,000,000	\$153	\$0.09	\$0.000851	0.06%	-\$22,155	\$22,054	-\$101
2007	16,000,000	\$141	\$0.05	\$0.000483	0.03%	-\$12,564	\$12,508	-\$55
	16,000,000	\$155	\$0.05	\$0.000531	0.03%	-\$13,811	\$13,750	-\$61
2008	6,000,000	\$138	\$0.02	\$0.000177	0.01%	-\$4,611	\$4,591	-\$19
	6,000,000	\$151	\$0.02	\$0.000194	0.01%	-\$5,045	\$5,024	-\$21
2009	6,000,000	\$131	\$0.02	\$0.000168	0.01%	-\$4,377	\$4,358	-\$18
	6,000,000	\$148	\$0.02	\$0.000190	0.01%	-\$4,945	\$4,924	-\$21

¹See Appendix G.

Appendix Q. Results of the analysis for beef, with one-half assumed replacement of steer/heifer beef imports by cow beef imports, 2005-2009, thousand dollars

<u>Year</u>	<u>Decline in Imports from Canada¹</u> pounds	<u>Baseline Price</u> \$ per cwt	<u>Increase in Price</u>		<u>Percentage Increase in Price</u>	<u>Decrease in Consumer Surplus</u>	<u>Increase in Producer Surplus</u>	<u>Net Change</u>
			\$ per cwt	\$ per lb		-----Thousand Dollars-----		
2005	23,000,000	\$141	\$0.06	\$0.000645	0.05%	-\$18,038	\$17,998	-\$40
	23,000,000	\$147	\$0.07	\$0.000672	0.05%	-\$18,805	\$18,764	-\$41
2006	13,000,000	\$143	\$0.04	\$0.000398	0.03%	-\$10,352	\$10,308	-\$45
	13,000,000	\$153	\$0.04	\$0.000426	0.03%	-\$11,076	\$11,028	-\$48
2007	8,000,000	\$141	\$0.02	\$0.000242	0.02%	-\$6,281	\$6,255	-\$27
	8,000,000	\$155	\$0.03	\$0.000266	0.02%	-\$6,905	\$6,876	-\$29
2008	3,000,000	\$138	\$0.01	\$0.000089	0.01%	-\$2,305	\$2,296	-\$10
	3,000,000	\$151	\$0.01	\$0.000097	0.01%	-\$2,522	\$2,512	-\$10
2009	3,000,000	\$131	\$0.01	\$0.000084	0.01%	-\$2,188	\$2,179	-\$9
	3,000,000	\$148	\$0.01	\$0.000095	0.01%	-\$2,472	\$2,462	-\$10

¹See Appendix G.

Appendix R. Welfare effects of the rule for beef, with assumed replacement of steer/heifer beef imports by cow beef imports, 2005-2009, thousand dollars

		Price	Changes in Welfare				
		Range	Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
		End-point		3%	7%	3%	7%
		\$ per cwt					
2005	Consumer	\$141	-\$36,082	-\$35,031	-\$33,722	-\$33,017	-\$31,783
	Producer	\$141	\$35,988	\$34,940	\$33,634	\$32,931	\$31,700
	Net	\$141	-\$94	-\$91	-\$88	-\$86	-\$83
	Consumer	\$147	-\$37,618	-\$36,522	-\$35,157	-\$34,422	-\$33,135
	Producer	\$147	\$37,520	\$36,427	\$35,065	\$34,332	\$33,049
	Net	\$147	-\$98	-\$95	-\$92	-\$90	-\$86
2006	Consumer	\$143	-\$20,707	-\$19,518	-\$18,086	-\$18,396	-\$17,046
	Producer	\$143	\$20,612	\$19,429	\$18,004	\$18,312	\$16,968
	Net	\$143	-\$95	-\$89	-\$83	-\$84	-\$78
	Consumer	\$153	-\$22,155	-\$20,883	-\$19,351	-\$19,682	-\$18,238
	Producer	\$153	\$22,054	\$20,788	\$19,263	\$19,592	\$18,155
	Net	\$153	-\$101	-\$95	-\$88	-\$90	-\$83
2007	Consumer	\$141	-\$12,564	-\$11,497	-\$9,385	-\$10,836	-\$8,846
	Producer	\$141	\$12,508	\$11,447	\$9,344	\$10,789	\$8,807
	Net	\$141	-\$55	-\$50	-\$41	-\$48	-\$39
	Consumer	\$155	-\$13,811	-\$12,639	-\$10,317	-\$11,912	-\$9,724
	Producer	\$155	\$13,750	\$12,584	\$10,272	\$11,860	\$9,681
	Net	\$155	-\$61	-\$55	-\$45	-\$52	-\$43
2008	Consumer	\$138	-\$4,611	-\$4,097	-\$3,125	-\$3,861	-\$2,946
	Producer	\$138	\$4,591	\$4,079	\$3,112	\$3,845	\$2,933
	Net	\$138	-\$19	-\$17	-\$13	-\$16	-\$12
	Consumer	\$151	-\$5,045	-\$4,482	-\$3,420	-\$4,225	-\$3,223
	Producer	\$151	\$5,024	\$4,464	\$3,405	\$4,207	\$3,209
	Net	\$151	-\$21	-\$19	-\$14	-\$18	-\$13
2009	Consumer	\$131	-\$4,377	-\$3,775	-\$2,692	-\$3,558	-\$2,537
	Producer	\$131	\$4,358	\$3,760	\$2,681	\$3,543	\$2,526
	Net	\$131	-\$18	-\$16	-\$11	-\$15	-\$11
	Consumer	\$148	-\$4,945	-\$4,265	-\$3,041	-\$4,020	-\$2,866
	Producer	\$148	\$4,924	\$4,248	\$3,028	\$4,003	\$2,854
	Net	\$148	-\$21	-\$18	-\$13	-\$17	-\$12

¹See Appendix P.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix S. Welfare effects of the rule for beef, with one-half assumed replacement of steer/heifer beef imports by cow beef imports, 2005-2009

		Price	Changes in Welfare				
		Range	Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
		End-point		3%	7%	3%	7%
		\$ per cwt					
2005	Consumer	\$141	-\$18,038	-\$17,513	-\$16,858	-\$16,506	-\$15,889
	Producer	\$141	\$17,998	\$17,474	\$16,821	\$16,469	\$15,854
	Net	\$141	-\$40	-\$39	-\$37	-\$36	-\$35
	Consumer	\$147	-\$18,805	-\$18,258	-\$17,575	-\$17,208	-\$16,565
	Producer	\$147	\$18,764	\$18,218	\$17,537	\$17,170	\$16,528
	Net	\$147	-\$41	-\$40	-\$39	-\$38	-\$36
	Consumer	\$143	-\$10,352	-\$9,758	-\$9,042	-\$9,197	-\$8,522
	Producer	\$143	\$10,308	\$9,716	\$9,003	\$9,157	\$8,485
	Net	\$143	-\$45	-\$42	-\$39	-\$40	-\$37
2006	Consumer	\$153	-\$11,076	-\$10,440	-\$9,674	-\$9,840	-\$9,118
	Producer	\$153	\$11,028	\$10,395	\$9,633	\$9,798	\$9,079
	Net	\$153	-\$48	-\$45	-\$42	-\$43	-\$39
	Consumer	\$141	-\$6,281	-\$5,748	-\$4,692	-\$5,418	-\$4,423
	Producer	\$141	\$6,255	\$5,724	\$4,672	\$5,395	\$4,404
	Net	\$141	-\$27	-\$24	-\$20	-\$23	-\$19
	Consumer	\$155	-\$6,905	-\$6,319	-\$5,158	-\$5,956	-\$4,862
	Producer	\$155	\$6,876	\$6,292	\$5,136	\$5,931	\$4,841
	Net	\$155	-\$29	-\$27	-\$22	-\$25	-\$21
2007	Consumer	\$138	-\$2,305	-\$2,048	-\$1,563	-\$1,930	-\$1,473
	Producer	\$138	\$2,296	\$2,040	\$1,556	\$1,922	\$1,467
	Net	\$138	-\$10	-\$8	-\$6	-\$8	-\$6
	Consumer	\$151	-\$2,522	-\$2,241	-\$1,710	-\$2,112	-\$1,611
	Producer	\$151	\$2,512	\$2,232	\$1,703	\$2,104	\$1,605
	Net	\$151	-\$10	-\$9	-\$7	-\$9	-\$7
	Consumer	\$131	-\$2,188	-\$1,888	-\$1,346	-\$1,779	-\$1,269
	Producer	\$131	\$2,179	\$1,880	\$1,340	\$1,772	\$1,263
	Net	\$131	-\$9	-\$8	-\$6	-\$7	-\$5
2008	Consumer	\$148	-\$2,472	-\$2,133	-\$1,521	-\$2,010	-\$1,433
	Producer	\$148	\$2,462	\$2,124	\$1,514	\$2,002	\$1,427
	Net	\$148	-\$10	-\$9	-\$6	-\$8	-\$6
2009	Consumer	\$131	-\$2,188	-\$1,888	-\$1,346	-\$1,779	-\$1,269
	Producer	\$131	\$2,179	\$1,880	\$1,340	\$1,772	\$1,263
	Net	\$131	-\$9	-\$8	-\$6	-\$7	-\$5
	Consumer	\$148	-\$2,472	-\$2,133	-\$1,521	-\$2,010	-\$1,433
	Producer	\$148	\$2,462	\$2,124	\$1,514	\$2,002	\$1,427
	Net	\$148	-\$10	-\$9	-\$6	-\$8	-\$6
	Consumer	\$131	-\$2,188	-\$1,888	-\$1,346	-\$1,779	-\$1,269
	Producer	\$131	\$2,179	\$1,880	\$1,340	\$1,772	\$1,263
	Net	\$131	-\$9	-\$8	-\$6	-\$7	-\$5

¹See Appendix Q.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix T. Alternative of Canadian beef imports only from cattle less than 30 months: quantities of fed cattle and feeder cattle assumed to be imported from Canada, 2005-2009, head

<u>Period</u>	<u>Category of Cattle</u>	<u>Backlog</u>	<u>One-half Backlog</u>	<u>Normal Imports</u>	<u>Total</u>
1st Q, 2005	fed	394,500		120,700	515,200
	fed		197,250	120,700	317,950
	feeder	204,000		116,700	320,700
	feeder		102,000	116,700	218,700
1st and 2nd Q, 2005	fed	394,500		288,000	682,500
	fed		197,250	288,000	485,250
	feeder	204,000		166,400	370,400
	feeder		102,000	166,400	268,400
2005	fed	394,500		652,400	1,046,900
	fed		197,250	652,400	849,650
	feeder	204,000		311,400	515,400
	feeder		102,000	311,400	413,400
2006	fed			612,400	612,400
	feeder			301,400	301,400
2007	fed			582,400	582,400
	feeder			291,400	291,400
2008	fed			562,400	562,400
	feeder			281,400	281,400
2009	fed			552,400	552,400
	feeder			271,400	271,400

Note: See Appendixes C, D, and E.

Appendix U. Alternative of Canadian beef imports only from cattle less than 30 months: five-year welfare effects for fed cattle, feeder cattle, and beef, by end-points of price ranges, and mid-points and annualized values of combined welfare effects, 2005-2009, thousand dollars¹

			Price	Changes in Welfare				
			Range End-point	Undiscounted ²	Discounted to 2005 Dollars		Discounted to 2001 Dollars ³	
					3%	7%	3%	7%
Fed Cattle	Consumer	low	\$1,955,988	\$1,809,742	\$1,560,347	\$1,705,682	\$1,470,627	
	Producer	low	-\$1,929,586	-\$1,785,045	-\$1,538,474	-\$1,682,405	-\$1,450,012	
	Net	low	\$26,402	\$24,697	\$21,872	\$23,277	\$20,615	
	Consumer	high	\$2,131,965	\$1,971,088	\$1,696,138	\$1,857,751	\$1,598,610	
	Producer	high	-\$2,103,290	-\$1,944,284	-\$1,672,441	-\$1,832,488	-\$1,576,275	
	Net	high	\$28,675	\$26,804	\$23,697	\$25,263	\$22,335	
Feeder Cattle	Consumer	low	\$607,415	\$562,477	\$485,936	\$530,134	\$457,995	
	Producer	low	-\$577,711	-\$534,921	-\$462,024	-\$504,163	-\$435,458	
	Net	low	\$29,704	\$27,556	\$23,912	\$25,971	\$22,537	
	Consumer	high	\$657,073	\$608,002	\$524,237	\$573,042	\$494,094	
	Producer	high	-\$624,961	-\$578,234	-\$498,456	-\$544,986	-\$469,795	
	Net	high	\$32,112	\$29,767	\$25,781	\$28,056	\$24,299	
Beef	Consumer	low	-\$78,340	-\$73,919	-\$67,011	-\$69,669	-\$63,157	
	Producer	low	\$78,059	\$73,655	\$66,774	\$69,420	\$62,935	
	Net	low	-\$282	-\$264	-\$236	-\$249	-\$223	
	Consumer	high	-\$83,574	-\$78,792	-\$71,286	-\$74,262	-\$67,187	
	Producer	high	\$83,272	\$78,509	\$71,033	\$73,995	\$66,949	
	Net	high	-\$302	-\$283	-\$253	-\$267	-\$238	
Combined	Consumer	low	\$2,485,062	\$2,298,300	\$1,979,272	\$2,166,147	\$1,865,464	
	Producer	low	-\$2,429,238	-\$2,246,311	-\$1,933,724	-\$2,117,148	-\$1,822,535	
	Net	low	\$55,825	\$51,989	\$45,548	\$48,999	\$42,929	
	Consumer	high	\$2,705,465	\$2,500,298	\$2,149,089	\$2,356,531	\$2,025,516	
	Producer	high	-\$2,644,979	-\$2,444,009	-\$2,099,863	-\$2,303,479	-\$1,979,121	
	Net	high	\$60,485	\$56,289	\$49,226	\$53,052	\$46,395	
	Consumer	mid-point	\$2,595,264	\$2,399,299	\$2,064,181	\$2,261,339	\$1,945,490	
	Producer	mid-point	-\$2,537,109	-\$2,345,160	-\$2,016,794	-\$2,210,314	-\$1,900,828	
	Net	mid-point	\$58,155	\$54,139	\$47,387	\$51,026	\$44,662	
Annualized values	Consumer	low		\$501,844	\$482,726	\$472,988	\$454,969	
	Producer	low		-\$490,492	-\$471,617	-\$462,289	-\$444,499	
	Net	low		\$11,352	\$11,109	\$10,699	\$10,470	
	Consumer	high		\$545,951	\$524,143	\$514,559	\$494,005	
	Producer	high		-\$533,661	-\$512,137	-\$502,975	-\$482,689	
	Net	high		\$12,291	\$12,006	\$11,584	\$11,315	
	Consumer	mid-point		\$523,898	\$503,434	\$493,774	\$474,487	
	Producer	mid-point		-\$512,076	-\$491,877	-\$482,632	-\$463,594	
	Net	mid-point		\$11,821	\$11,557	\$11,142	\$10,893	

¹Assumes importation of the backlog and assumes the decline in beef imports due to the replacement of steer/heifer beef by cow beef.

²See Appendixes N, R, and Y.

³Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix V. Alternative of Canadian beef imports only from cattle less than 30 months: five-year welfare effects for fed cattle, feeder cattle, and beef, by end-points of price ranges, and mid-points and annualized values of combined welfare effects, 2005-2009, thousand dollars¹

			Price	Changes in Welfare				
			Range	Undiscounted ²	Discounted to 2005 Dollars		Discounted to 2001 Dollars ³	
			End-point		3%	7%	3%	7%
Fed Cattle	Consumer	low	\$1,839,330	\$1,696,482	\$1,451,321	\$1,598,935	\$1,367,870	
	Producer	low	-\$1,817,040	-\$1,675,778	-\$1,433,292	-\$1,579,421	-\$1,350,878	
	Net	low	\$22,290	\$20,704	\$18,029	\$19,514	\$16,992	
	Consumer	high	\$2,006,772	\$1,849,542	\$1,579,135	\$1,743,193	\$1,488,334	
	Producer	high	-\$1,982,510	-\$1,827,022	-\$1,559,562	-\$1,721,968	-\$1,469,887	
	Net	high	\$24,262	\$22,519	\$19,573	\$21,225	\$18,447	
Feeder Cattle	Consumer	low	\$568,128	\$524,334	\$449,220	\$494,185	\$423,390	
	Producer	low	-\$540,840	-\$499,124	-\$427,566	-\$470,424	-\$402,981	
	Net	low	\$27,288	\$25,210	\$21,654	\$23,761	\$20,409	
	Consumer	high	\$615,279	\$567,425	\$485,177	\$534,798	\$457,279	
	Producer	high	-\$585,737	-\$540,153	-\$461,798	-\$509,094	-\$435,244	
	Net	high	\$29,542	\$27,272	\$23,379	\$25,704	\$22,035	
Beef	Consumer	low	-\$39,165	-\$36,955	-\$33,501	-\$34,830	-\$31,574	
	Producer	low	\$39,036	\$36,834	\$33,393	\$34,716	\$31,473	
	Net	low	-\$130	-\$121	-\$108	-\$114	-\$102	
	Consumer	high	-\$41,782	-\$39,391	-\$35,638	-\$37,126	-\$33,589	
	Producer	high	\$41,642	\$39,261	\$35,523	\$37,003	\$33,480	
	Net	high	-\$139	-\$130	-\$116	-\$123	-\$109	
Combined	Consumer	low	\$2,368,293	\$2,183,862	\$1,867,040	\$2,058,290	\$1,759,685	
	Producer	low	-\$2,318,845	-\$2,138,069	-\$1,827,465	-\$2,015,130	-\$1,722,386	
	Net	low	\$49,448	\$45,793	\$39,575	\$43,160	\$37,300	
	Consumer	high	\$2,580,269	\$2,377,575	\$2,028,673	\$2,240,865	\$1,912,025	
	Producer	high	-\$2,526,605	-\$2,327,914	-\$1,985,837	-\$2,194,059	-\$1,871,652	
	Net	high	\$53,665	\$49,661	\$42,836	\$46,806	\$40,373	
	Consumer	mid-point	\$2,474,281	\$2,280,719	\$1,947,857	\$2,149,577	\$1,835,855	
	Producer	mid-point	-\$2,422,725	-\$2,232,991	-\$1,906,651	-\$2,104,594	-\$1,797,019	
	Net	mid-point	\$51,556	\$47,727	\$41,206	\$44,983	\$38,836	
	Annualized values	Consumer	low		\$476,856	\$455,354	\$449,437	\$429,171
		Producer	low		-\$466,857	-\$445,702	-\$440,013	-\$420,074
		Net	low		\$9,999	\$9,652	\$9,424	\$9,097
Consumer		high		\$519,154	\$494,775	\$489,303	\$466,325	
Producer		high		-\$508,311	-\$484,327	-\$479,083	-\$456,478	
Net		high		\$10,844	\$10,447	\$10,220	\$9,847	
	Consumer	mid-point		\$498,005	\$475,064	\$469,370	\$447,748	
	Producer	mid-point		-\$487,584	-\$465,014	-\$459,548	-\$438,276	
	Net	mid-point		\$10,421	\$10,050	\$9,822	\$9,472	

¹Assumes importation of one-half of the backlog and assumes one-half of the decline in beef imports due to the replacement of steer/heifer beef by cow beef.

²See Appendixes O, S, and Z.

³Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix W. Alternative of Canadian beef imports only from cattle less than 30 months: results of analyses for fed and feeder cattle, assuming importation of the backlog, 2005-2009

Time Period	Category of Cattle	Elasticities	Reestablished	Baseline	Increase in	Decrease in	Percentage		Increase in	Decrease in	Net	
			Imports from	Price	Total	Quantity Supplied	Decrease	Consumer	Producer	Net		
			Canada ¹		Quantity Sold	by U.S. Entities	Decrease in Price	in Price	Surplus	Surplus		Benefit
			head	\$ per cwt	head		\$ per cwt	\$ per head				
									-----Thousand Dollars-----			
QI, 2005	fed cattle	s 0.61, d -0.76	515,200	\$82	222,511	-292,689	-\$3.62	-\$45.20	-4.41%	\$305,125	-\$293,393	\$11,733
	fed cattle	s 0.61, d -0.76	515,200	\$88	222,511	-292,689	-\$3.88	-\$48.50	-4.41%	\$327,452	-\$314,860	\$12,591
	fed cattle	s 0.30, d -0.38	515,200	\$82	141,898	-373,302	-\$4.61	-\$57.64	-5.62%	\$386,840	-\$371,876	\$14,964
	fed cattle	s 0.30, d -0.38	515,200	\$88	141,898	-373,302	-\$4.95	-\$61.86	-5.62%	\$412,703	-\$396,829	\$15,873
	feeder cattle	s 0.40, d -0.89	320,700	\$92	158,732	-161,968	-\$3.01	-\$22.61	-3.28%	\$124,857	-\$109,927	\$14,930
	feeder cattle	s 0.40, d -0.89	320,700	\$98	158,732	-161,968	-\$3.21	-\$24.08	-3.28%	\$133,000	-\$117,096	\$15,904
	feeder cattle	s 0.20, d -0.44	320,700	\$92	104,669	-216,031	-\$4.02	-\$30.16	-4.37%	\$165,718	-\$145,804	\$19,914
QI, QII, 2005	feeder cattle	s 0.20, d -0.44	320,700	\$98	104,669	-216,031	-\$4.28	-\$32.12	-4.37%	\$176,526	-\$155,313	\$21,212
	fed cattle	s 0.61, d -0.76	682,500	\$82	294,777	-387,723	-\$2.31	-\$28.94	-2.82%	\$401,826	-\$391,807	\$10,019
	fed cattle	s 0.61, d -0.76	682,500	\$90	294,777	-387,723	-\$2.54	-\$31.76	-2.82%	\$441,028	-\$430,032	\$10,997
	fed cattle	s 0.30, d -0.38	682,500	\$82	187,984	-494,516	-\$2.95	-\$36.91	-3.60%	\$510,532	-\$497,753	\$12,779
	fed cattle	s 0.30, d -0.38	682,500	\$90	187,984	-494,516	-\$3.24	-\$40.51	-3.60%	\$560,340	-\$546,314	\$14,026
	feeder cattle	s 0.40, d -0.89	370,400	\$92	187,673	-182,727	-\$1.72	-\$12.92	-1.87%	\$146,712	-\$124,901	\$21,811
	feeder cattle	s 0.40, d -0.89	370,400	\$99	187,673	-182,727	-\$1.85	-\$13.91	-1.87%	\$157,981	-\$134,495	\$23,486
	feeder cattle	s 0.20, d -0.44	370,400	\$92	124,739	-245,661	-\$2.32	-\$17.37	-2.52%	\$196,696	-\$167,373	\$29,323
	feeder cattle	s 0.20, d -0.44	370,400	\$99	124,739	-245,661	-\$2.49	-\$18.70	-2.52%	\$211,805	-\$180,229	\$31,575
	2005 fed cattle	s 0.61, d -0.76	1,046,900	\$82	452,167	-594,733	-\$1.82	-\$22.78	-2.22%	\$614,979	-\$602,829	\$12,150
	2005 fed cattle	s 0.61, d -0.76	1,046,900	\$88	452,167	-594,733	-\$1.96	-\$24.44	-2.22%	\$659,978	-\$646,939	\$13,039
	2005 feeder cattle	s 0.40, d -0.89	515,400	\$94	248,101	-267,299	-\$1.18	-\$8.88	-1.26%	\$197,631	-\$187,259	\$10,372
	2005 feeder cattle	s 0.40, d -0.89	515,400	\$100	248,101	-267,299	-\$1.26	-\$9.45	-1.26%	\$210,246	-\$199,212	\$11,034
	2006 fed cattle	s 0.61, d -0.76	612,400	\$84	264,499	-347,901	-\$1.04	-\$12.94	-1.23%	\$367,137	-\$363,046	\$4,091
	2006 fed cattle	s 0.61, d -0.76	612,400	\$90	264,499	-347,901	-\$1.11	-\$13.86	-1.23%	\$393,361	-\$388,978	\$4,383
	2006 feeder cattle	s 0.40, d -0.89	301,400	\$91	145,087	-156,313	-\$0.64	-\$4.77	-0.70%	\$111,688	-\$106,389	\$5,299
	2006 feeder cattle	s 0.40, d -0.89	301,400	\$97	145,087	-156,313	-\$0.68	-\$5.08	-0.70%	\$119,046	-\$113,399	\$5,648
	2007 fed cattle	s 0.61, d -0.76	582,400	\$83	251,542	-330,858	-\$0.97	-\$12.14	-1.17%	\$345,080	-\$341,424	\$3,656
	2007 fed cattle	s 0.61, d -0.76	582,400	\$91	251,542	-330,858	-\$1.06	-\$13.31	-1.17%	\$378,324	-\$374,316	\$4,008
	2007 feeder cattle	s 0.40, d -0.89	291,400	\$90	140,273	-151,127	-\$0.61	-\$4.55	-0.67%	\$106,706	-\$101,667	\$5,039
	2007 feeder cattle	s 0.40, d -0.89	291,400	\$98	140,273	-151,127	-\$0.66	-\$4.95	-0.67%	\$116,191	-\$110,704	\$5,487
2008	fed cattle	s 0.61, d -0.76	562,400	\$81	242,904	-319,496	-\$0.93	-\$11.59	-1.14%	\$325,174	-\$321,798	\$3,375
	2008 fed cattle	s 0.61, d -0.76	562,400	\$89	242,904	-319,496	-\$1.02	-\$12.74	-1.14%	\$357,274	-\$353,565	\$3,708
	2008 feeder cattle	s 0.40, d -0.89	281,400	\$87	135,458	-145,942	-\$0.57	-\$4.31	-0.66%	\$99,678	-\$94,986	\$4,692
	2008 feeder cattle	s 0.40, d -0.89	281,400	\$95	135,458	-145,942	-\$0.63	-\$4.70	-0.66%	\$108,837	-\$103,714	\$5,123
2009	fed cattle	s 0.61, d -0.76	552,400	\$77	238,586	-313,814	-\$0.87	-\$10.94	-1.14%	\$303,618	-\$300,488	\$3,130
	2009 fed cattle	s 0.61, d -0.76	552,400	\$87	238,586	-313,814	-\$0.99	-\$12.36	-1.14%	\$343,028	-\$339,492	\$3,536
	2009 feeder cattle	s 0.40, d -0.89	271,400	\$83	130,644	-140,756	-\$0.53	-\$4.00	-0.64%	\$91,712	-\$87,410	\$4,302
	2009 feeder cattle	s 0.40, d -0.89	271,400	\$93	130,644	-140,756	-\$0.60	-\$4.49	-0.64%	\$102,753	-\$97,933	\$4,820

¹See Appendix T.

Appendix X. Alternative of Canadian beef imports only from cattle less than 30 months: results of analyses for fed and feeder cattle, assuming importation of one-half of the backlog, 2005

Time Period	Category of Cattle	Elasticities	Reestablished Imports from Canada ¹ head	Baseline Price \$ per cwt	Increase in Total Quantity Sold head	Decrease in Quantity Supplied by U.S. Entities head	Decrease in Price \$ per cwt \$ per head		Percentage Decrease in Price	Increase in Consumer Surplus -----Thousand Dollars-----	Decrease in Producer Surplus	Net Benefit
QI, 2005	fed cattle	s 0.61, d -0.76	317,950	\$82	137,320	-180,630	-\$2.23	-\$27.89	-2.72%	\$187,117	-\$182,627	\$4,490
	fed cattle	s 0.61, d -0.76	317,950	\$88	137,320	-180,630	-\$2.39	-\$29.93	-2.72%	\$200,808	-\$195,990	\$4,818
	fed cattle	s 0.30, d -0.38	317,950	\$82	87,571	-230,379	-\$2.85	-\$35.57	-3.47%	\$237,768	-\$232,041	\$5,727
	fed cattle	s 0.30, d -0.38	317,950	\$88	87,571	-230,379	-\$3.05	-\$38.18	-3.47%	\$255,166	-\$249,020	\$6,146
	feeder cattle	s 0.40, d -0.89	218,700	\$92	108,247	-110,453	-\$1.28	-\$15.42	-1.40%	\$84,756	-\$75,361	\$9,395
	feeder cattle	s 0.40, d -0.89	218,700	\$98	108,247	-110,453	-\$1.37	-\$16.42	-1.40%	\$90,284	-\$80,276	\$10,008
	feeder cattle	s 0.20, d -0.44	218,700	\$92	71,378	-147,322	-\$1.71	-\$20.56	-1.86%	\$112,668	-\$100,137	\$12,531
	feeder cattle	s 0.20, d -0.44	218,700	\$98	71,378	-147,322	-\$1.83	-\$21.91	-1.86%	\$120,016	-\$106,668	\$13,348
QI, QII, 2005	fed cattle	s 0.61, d -0.76	485,250	\$82	209,583	-275,667	-\$1.65	-\$20.57	-2.01%	\$284,818	-\$279,723	\$5,095
	fed cattle	s 0.61, d -0.76	485,250	\$90	209,583	-275,667	-\$1.81	-\$22.58	-2.01%	\$312,605	-\$307,013	\$5,592
	fed cattle	s 0.30, d -0.38	485,250	\$82	133,655	-351,595	-\$2.10	-\$26.24	-2.56%	\$362,270	-\$355,773	\$6,498
	fed cattle	s 0.30, d -0.38	485,250	\$90	133,655	-351,595	-\$2.30	-\$28.80	-2.56%	\$397,614	-\$390,482	\$7,132
	feeder cattle	s 0.40, d -0.89	268,400	\$92	135,992	-132,408	-\$0.78	-\$9.36	-0.85%	\$106,069	-\$90,742	\$15,327
	feeder cattle	s 0.40, d -0.89	268,400	\$99	135,992	-132,408	-\$0.84	-\$10.08	-0.85%	\$114,216	-\$97,712	\$16,504
	feeder cattle	s 0.20, d -0.44	268,400	\$92	90,388	-178,012	-\$1.05	-\$12.59	-1.14%	\$142,314	-\$121,708	\$20,606
	feeder cattle	s 0.20, d -0.44	268,400	\$99	90,388	-178,012	-\$1.13	-\$13.55	-1.14%	\$153,245	-\$131,057	\$22,189
2005	fed cattle	s 0.61, d -0.76	849,650	\$82	366,973	-482,677	-\$1.48	-\$18.48	-1.80%	\$498,322	-\$490,284	\$8,038
	fed cattle	s 0.61, d -0.76	849,650	\$88	366,973	-482,677	-\$1.59	-\$19.84	-1.80%	\$534,784	-\$526,159	\$8,626
	feeder cattle	s 0.40, d -0.89	413,400	\$94	199,001	-214,399	-\$0.59	-\$7.12	-0.63%	\$158,344	-\$150,388	\$7,956
	feeder cattle	s 0.40, d -0.89	413,400	\$100	199,001	-214,399	-\$0.63	-\$7.58	-0.63%	\$168,451	-\$159,987	\$8,464

¹See Appendix T.

Note: For years 2006-2009, fed and feeder cattle imports and impacts are the same as shown in Appendix W.

Appendix Y. Alternative of Canadian beef imports only from cattle less than 30 months: welfare effects for fed cattle, assuming importation of the backlog, 2005-2009, thousand dollars

	Price Range End-point \$ per cwt	Changes in Welfare				
		Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
			3%	7%	3%	7%
2005 Consumer	\$82	\$614,979	\$597,067	\$574,747	\$562,736	\$541,699
Producer	\$82	-\$602,829	-\$585,271	-\$563,392	-\$551,618	-\$530,997
Net	\$82	\$12,150	\$11,796	\$11,355	\$11,118	\$10,702
Consumer	\$88	\$659,978	\$640,755	\$616,802	\$603,912	\$581,335
Producer	\$88	-\$646,939	-\$628,096	-\$604,616	-\$591,980	-\$569,850
Net	\$88	\$13,039	\$12,659	\$12,186	\$11,931	\$11,485
2006 Consumer	\$84	\$367,137	\$346,062	\$320,672	\$326,164	\$302,233
Producer	\$84	-\$363,046	-\$342,206	-\$317,099	-\$322,529	-\$298,866
Net	\$84	\$4,091	\$3,856	\$3,573	\$3,634	\$3,368
Consumer	\$90	\$393,361	\$370,781	\$343,577	\$349,461	\$323,821
Producer	\$90	-\$388,978	-\$366,649	-\$339,749	-\$345,567	-\$320,213
Net	\$90	\$4,383	\$4,132	\$3,828	\$3,894	\$3,608
2007 Consumer	\$83	\$345,080	\$315,797	\$257,784	\$297,639	\$242,962
Producer	\$83	-\$341,424	-\$312,451	-\$255,053	-\$294,485	-\$240,387
Net	\$83	\$3,656	\$3,346	\$2,731	\$3,154	\$2,574
Consumer	\$91	\$378,324	\$346,220	\$282,619	\$326,313	\$266,368
Producer	\$91	-\$374,316	-\$342,552	-\$279,625	-\$322,855	-\$263,546
Net	\$91	\$4,008	\$3,668	\$2,994	\$3,457	\$2,822
2008 Consumer	\$81	\$325,174	\$288,913	\$220,410	\$272,300	\$207,736
Producer	\$81	-\$321,798	-\$285,914	-\$218,122	-\$269,474	-\$205,580
Net	\$81	\$3,375	\$2,999	\$2,288	\$2,826	\$2,156
Consumer	\$89	\$357,274	\$317,433	\$242,168	\$299,181	\$228,243
Producer	\$89	-\$353,565	-\$314,138	-\$239,654	-\$296,075	-\$225,874
Net	\$89	\$3,708	\$3,295	\$2,514	\$3,105	\$2,369
2009 Consumer	\$77	\$303,618	\$261,903	\$186,733	\$246,844	\$175,996
Producer	\$77	-\$300,488	-\$259,204	-\$184,809	-\$244,299	-\$174,182
Net	\$77	\$3,130	\$2,700	\$1,925	\$2,545	\$1,814
Consumer	\$87	\$343,028	\$295,899	\$210,972	\$278,885	\$198,841
Producer	\$87	-\$339,492	-\$292,849	-\$208,797	-\$276,010	-\$196,791
Net	\$87	\$3,536	\$3,050	\$2,175	\$2,875	\$2,050

¹See Appendix W.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>

Appendix Z. Alternative of Canadian beef imports only from cattle less than 30 months: welfare effects for fed cattle, assuming importation of one-half of the backlog, 2005-2009, thousand dollars

	Price Range End-point \$ per cwt	Changes in Welfare				
		Undiscounted ¹	Discounted to 2005 Dollars		Discounted to 2001 Dollars ²	
			3%	7%	3%	7%
2005 Consumer	\$82	\$498,322	\$483,808	\$465,721	\$455,989	\$438,942
Producer	\$82	-\$490,284	-\$476,004	-\$458,210	-\$448,634	-\$431,863
Net	\$82	\$8,038	\$7,804	\$7,512	\$7,355	\$7,080
Consumer	\$88	\$534,784	\$519,208	\$499,799	\$489,354	\$471,060
Producer	\$88	-\$526,159	-\$510,834	-\$491,737	-\$481,461	-\$463,462
Net	\$88	\$8,626	\$8,375	\$8,061	\$7,893	\$7,598
2006 Consumer	\$84	\$367,137	\$346,062	\$320,672	\$326,164	\$302,233
Producer	\$84	-\$363,046	-\$342,206	-\$317,099	-\$322,529	-\$298,866
Net	\$84	\$4,091	\$3,856	\$3,573	\$3,634	\$3,368
Consumer	\$90	\$393,361	\$370,781	\$343,577	\$349,461	\$323,821
Producer	\$90	-\$388,978	-\$366,649	-\$339,749	-\$345,567	-\$320,213
Net	\$90	\$4,383	\$4,132	\$3,828	\$3,894	\$3,608
2007 Consumer	\$83	\$345,080	\$315,797	\$257,784	\$297,639	\$242,962
Producer	\$83	-\$341,424	-\$312,451	-\$255,053	-\$294,485	-\$240,387
Net	\$83	\$3,656	\$3,346	\$2,731	\$3,154	\$2,574
Consumer	\$91	\$378,324	\$346,220	\$282,619	\$326,313	\$266,368
Producer	\$91	-\$374,316	-\$342,552	-\$279,625	-\$322,855	-\$263,546
Net	\$91	\$4,008	\$3,668	\$2,994	\$3,457	\$2,822
2008 Consumer	\$81	\$325,174	\$288,913	\$220,410	\$272,300	\$207,736
Producer	\$81	-\$321,798	-\$285,914	-\$218,122	-\$269,474	-\$205,580
Net	\$81	\$3,375	\$2,999	\$2,288	\$2,826	\$2,156
Consumer	\$89	\$357,274	\$317,433	\$242,168	\$299,181	\$228,243
Producer	\$89	-\$353,565	-\$314,138	-\$239,654	-\$296,075	-\$225,874
Net	\$89	\$3,708	\$3,295	\$2,514	\$3,105	\$2,369
2009 Consumer	\$77	\$303,618	\$261,903	\$186,733	\$246,844	\$175,996
Producer	\$77	-\$300,488	-\$259,204	-\$184,809	-\$244,299	-\$174,182
Net	\$77	\$3,130	\$2,700	\$1,925	\$2,545	\$1,814
Consumer	\$87	\$343,028	\$295,899	\$210,972	\$278,885	\$198,841
Producer	\$87	-\$339,492	-\$292,849	-\$208,797	-\$276,010	-\$196,791
Net	\$87	\$3,536	\$3,050	\$2,175	\$2,875	\$2,050

¹See Appendix X.

²Converted from 2005 to 2001 dollars by multiplying by 0.9425. Source: <http://www.jsc.nasa.gov/bu2/inflateGDP.html>